

**B**

Type



Plans

**BLD** 11-5309

Permit Number

516

Street Number

Smokewood Dr.

Street Name

BEI

Community Code

043-162-041

APN

**COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT**  
 2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

Please Print Your Name: Janver Holly Date Applied: 12/17/2011

**INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT**

**SITE LOCATION INFORMATION - PRINT CLEARLY**

Site Address: <u>516 Smokewood</u>	City: <u>Santa Rosa</u> CA	ZIP: <u>95403</u>
Cross-Street: <u>Corby Ave</u>	APN: <u>043-162-041</u>	Project Phone #: <u>(707) 239-0157</u>
Directions: _____	Email address: <u>janver@sonic.net</u>	Project Fax #: <u>(707) 541-0797</u>
Describe Project: <u>Legalize Addition and + ABATE Converted Space</u>	Living Area: <u>320 168 COMU</u>	Contract Price: <u>28,900</u>
	Garage: _____	
OWNER NAME AND ADDRESS		APPLICANT NAME AND ADDRESS
Name: <u>Auxon LLC</u>	Name: <u>Janver Holly, Manager</u>	
Mailing Address: <u>139 Ursuline Road</u>	Mailing Address: <u>73 A Saint James Drive</u>	
City: <u>Santa Rosa</u> State: <u>CA</u> ZIP: <u>95403</u>	City: <u>Santa Rosa</u> State: <u>CA</u> ZIP: <u>95403</u>	
Day Ph: <u>(707) 239-0157</u> Fax: <u>(707) 541-0797</u>	Day Ph: <u>(707) 239-0157</u> Fax: <u>(707) 541-0797</u>	

**CONTRACTOR INFORMATION**

Company Name: \_\_\_\_\_ Name: \_\_\_\_\_

Address: \_\_\_\_\_ Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Day Ph: ( ) Fax: ( ) Day Ph: ( ) Fax: ( )

**OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Day Ph: ( ) Fax: ( ) Day Ph: ( ) Fax: ( )

**WORKER'S COMPENSATION DECLARATION**

I hereby affirm under penalty of perjury one of the following declarations:

I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:

Carrier: Stal

Policy No.: \_\_\_\_\_

(This section need not be completed if the permit is for one hundred dollars (\$100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Exp. Date: \_\_\_\_\_ Applicant: Janver Holly, Manager, Auxon LLC

**WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.**

**CONSTRUCTION LENDING DECLARATION**

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civ. C.)

Lenders Name: NONE

Lenders Address: \_\_\_\_\_

**R1 B65 d/y/ac FOR DEPARTMENT USE**

Zoning: R1 B65 d/y/ac File No. \_\_\_\_\_ Acres: 0.13

Existing Use/Structures: SEIP

Proposed Use/Structures: Legalize adds

Zoning Min. Yard Requirements: Front 20 Left 5 Right 5 Back 20

NOTE: Fire Safe Standards require all parcels greater than 1 Acre to have a min. 30' setback unless mitigated.  Mitigation Required  Address subject to change

Approval for Permit Issuance: OK Approval for Occupancy: \_\_\_\_\_

By: Janver Holly Date: 12-15-11

Date: \_\_\_\_\_ Date: \_\_\_\_\_

Conditions: \_\_\_\_\_

**OWNER-BUILDER DECLARATION**

I hereby affirm under penalty of perjury that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500).):

I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for the purpose of sale.)

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.)

I am exempt under Sec. \_\_\_\_\_, B & P.C. for this reason \_\_\_\_\_

By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following website: <http://www.leginfo.ca.gov/calaw.html>.

Date: 12/12/11 Signature: Janver Holly, Manager, Auxon, LLC

Sewer Connection:  Available  Fees Paid

Approved by: [Signature] Date: 15 Dec 11

Road Encroachment:  Fees Paid

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Septic System Permit/Clearance # \_\_\_\_\_

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Flood Zone:  Yes  No 100 Year Flood Elevation: \_\_\_\_\_

Site Review: [Signature]

Drainage Review: [Signature] Date: 15 Dec 11

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Fire: \_\_\_\_\_

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Code Enforcement Violation  Yes  No Violation # UB11070895

This permit is limited to \_\_\_\_\_ days.

shy to issue Date: 12-15-2011

**LICENSED CONTRACTOR'S DECLARATION**

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Class \_\_\_\_\_ Lic. No. \_\_\_\_\_

Exp. Date \_\_\_\_\_ Contractor \_\_\_\_\_

**ASBESTOS DECLARATION**

Written asbestos notification pursuant to Part 61 of Title 40 of the Code of Federal Regulations is required when asbestos exists in buildings, or portions thereof, undergoing demolition. I hereby declare that demolition authorized by this permit is from construction that ( ) does ( ) does not contain asbestos, or that  no demolition is authorized by this permit.

I certify that I have read this application and affirm under penalty of perjury that the above information is correct. I agree to comply with all local Ordinances and State laws relating to building construction. I hereby authorize representatives of the County of Sonoma to enter upon the above-mentioned property for inspection purposes. If, after making the Certificate of Exemption for the Worker's Compensation provision of the Labor Code I should become subject to such provisions, I will forthwith comply. In the event I do not comply with the Workman's Compensation law, this permit shall be deemed revoked.

PERMITTEE SIGNATURE: [Signature]

ADDRESS: 139 Ursuline Road Santa Rosa, CA 95403

Contractor  Owner  Other Licensed Professional

Work Authorized: legalize beds bath & laundry room add.

<input checked="" type="checkbox"/> Plans Approved	<input type="checkbox"/> Post FIRM	<input type="checkbox"/> Aquist Priolo Report Available
<input type="checkbox"/> No Plans Subject to Field Inspection	<input type="checkbox"/> Pre FIRM	<input type="checkbox"/> Geotechnical report Available
Plancher Cleared By: <u>[Signature]</u> Date: <u>12/15/11</u>	Type of Construction: <u>YB 03</u>	Occupancy: <u>1</u>
Permit Issued By: <u>[Signature]</u> Date: <u>12/15/11</u>	Auto. Fire Sprinkler Req'd: <u>NO</u>	No. of Units: <u>4</u>
Certificate of Occupancy		

Machine Space for Permit Fee

JOB ADDRESS: 516 Smokewood 025 Santa Rosa

PERMIT NUMBER: BL011-5309

INSPECTION AREA: 7

# BUILDING ENERGY ANALYSIS REPORT

## PROJECT:

Smokewood Residence  
516 Smokewood Drive  
Santa Rosa, CA 95407

## Project Designer:

Holly & Associates  
73A Saint James Place  
Santa Rosa, CA 95403  
(707) 541-0700

## Report Prepared by:

Peter Ziedrich  
RaPiD Energy Compliance  
420 Hudson Street, Suite K  
Healdsburg, CA 95448  
707 433-2878



## Job Number:

11T131

## Date:

12/13/2011

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2008 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC - [www.energysoft.com](http://www.energysoft.com).

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**PERFORMANCE CERTIFICATE: Residential** (Part 1 of 5) **CF-1R**

Project Name <i>Smokewood Residence</i>	Building Type <input checked="" type="checkbox"/> Single Family <input type="checkbox"/> Addition Alone <input type="checkbox"/> Multi Family <input checked="" type="checkbox"/> Existing+ Addition/Alteration	Date <i>12/13/2011</i>
Project Address <i>516 Smokewood Drive Santa Rosa</i>	California Energy Climate Zone <i>CA Climate Zone 02</i>	Total Cond. Floor Area <i>1,484</i>
	Addition <i>492</i>	# of Stories <i>1</i>

**FIELD INSPECTION ENERGY CHECKLIST**

- Yes  No HERS Measures -- If Yes, A CF-4R must be provided per Part 2 of 5 of this form.  
 Yes  No Special Features -- If Yes, see Part 2 of 5 of this form for details.

INSULATION		Area	Special	Status
Construction	Type	Cavity	Features (see Part 2 of 5)	
Floor	Wood Framed w/Crawl Space	None	992	New
Wall	Wood Framed	None	594	Existing
Door	Opaque Door	None	40	Existing
Roof	Wood Framed Attic	R-19	1,484	New
Floor	Wood Framed w/Crawl Space	R-19	240	New
Wall	Wood Framed	R-11	285	New
Wall	Wood Framed	R-11	255	New
Door	Opaque Door	None	18	New

FENESTRATION		U-Factor	SHGC	Overhang	Sidefins	Exterior Shades	Status
Orientation	Area(ft <sup>2</sup> )						
Front (N)	52.0	0.580	0.65	none	none	Bug Screen	Altered
Rear (S)	18.0	0.580	0.65	none	none	Bug Screen	Altered
Right (W)	18.0	0.580	0.65	1.0	none	Bug Screen	Altered
Front (N)	12.0	0.580	0.65	none	none	Bug Screen	New
Left (E)	16.0	0.580	0.65	1.0	none	Bug Screen	New
Rear (S)	33.4	0.580	0.65	none	none	Bug Screen	New

HVAC SYSTEMS						
Qty.	Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status
2	Gravity Wall Furnace	68% AFUE	No Cooling	13.0 SEER	Setback	Altered
1	Gravity Wall Furnace	68% AFUE	No Cooling	13.0 SEER	Setback	New

HVAC DISTRIBUTION				Duct	Status
Location	Heating	Cooling	Duct Location	R-Value	
Existing HVAC System	Ductless / No Fan	Ductless	n/a	n/a	Existing
Proposed HVAC System	Ductless / No Fan	Ductless	n/a	n/a	Existing

WATER HEATING					
Qty.	Type	Gallons	Min. Eff	Distribution	Status

**PERFORMANCE CERTIFICATE: Residential** (Part 1 of 5) **CF-1R**

Project Name <i>Smokewood Residence</i>	Building Type <input checked="" type="checkbox"/> Single Family <input type="checkbox"/> Addition Alone <input type="checkbox"/> Multi Family <input checked="" type="checkbox"/> Existing+ Addition/Alteration	Date <i>12/13/2011</i>
Project Address <i>516 Smokewood Drive Santa Rosa</i>	California Energy Climate Zone <i>CA Climate Zone 02</i>	Total Cond. Floor Area <i>1,484</i>
	Addition <i>492</i>	# of Stories <i>1</i>

**FIELD INSPECTION ENERGY CHECKLIST**

Yes  No HERS Measures -- If Yes, A CF-4R must be provided per Part 2 of 5 of this form.  
 Yes  No Special Features -- If Yes, see Part 2 of 5 of this form for details.

**INSULATION**

Construction Type	Cavity	Area (ft <sup>2</sup> )	Special Features (see Part 2 of 5)	Status
<i>Slab Unheated Slab-on-Grade</i>	<i>None</i>	<i>252</i>	<i>Perim = 47'</i>	<i>New</i>

**FENESTRATION**

Orientation	Area(ft <sup>2</sup> )	U-Factor	SHGC	Overhang	Sidelines	Exterior Shades	Status

**HVAC SYSTEMS**

Qty. Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status

**HVAC DISTRIBUTION**

Location	Heating	Cooling	Duct Location	Duct R-Value	Status

**WATER HEATING**

Qty. Type	Gallons	Min. Eff	Distribution	Status

**PERFORMANCE CERTIFICATE: Residential**

(Part 2 of 5)

**CF-1R**

Project Name

*Smokewood Residence*

Building Type

Single Family

Addition Alone

Multi Family

Existing+ Addition/Alteration

Date

*12/13/2011*

**SPECIAL FEATURES INSPECTION CHECKLIST**

The enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification to be used with the performance approach. The enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

*The HVAC System New DV 17k btuh does not include a cooling system, field verification is not necessary.*

*The HVAC System New DV 17k btuh does not include a cooling system, field verification is not necessary.*

**HERS REQUIRED VERIFICATION**

Items in this section require field testing and/or verification by a certified HERS Rater. The inspector must receive a completed CF-4R form for each of the measures listed below for final to be given.

**PERFORMANCE CERTIFICATE: Residential (Part 3 of 5) CF-1R**

Project Name *Smokewood Residence* Building Type  Single Family  Addition Alone  Multi Family  Existing+ Addition/Alteration Date *12/13/2011*

**ANNUAL ENERGY USE SUMMARY**

TDV (kBtu/ft <sup>2</sup> -yr)	Standard	Proposed	Margin
Space Heating	58.98	51.41	7.57
Space Cooling	19.47	23.13	-3.66
Fans	10.92	7.21	3.71
Domestic Hot Water	0.00	0.00	0.00
Pumps	0.00	0.00	0.00
<b>Totals</b>	<b>89.36</b>	<b>81.74</b>	<b>7.62</b>
<b>Percent Better Than Standard:</b>			<b>8.5 %</b>

**BUILDING COMPLIES - NO HERS VERIFICATION REQUIRED**

	(N) 340 deg	Ext. Walls/Roof	Wall Area	Fenestration Area
Building Front Orientation:	1.00	(N)	358	64
Number of Dwelling Units:	Natural Gas	(E)	298	16
Fuel Available at Site:	1,232	(S)	359	51
Raised Floor Area:	252	(W)	326	18
Slab on Grade Area:	8.1	Roof	1,484	0
Average Ceiling Height:	0.58			
Fenestration Average U-Factor:	0.65			
Average SHGC:			<b>TOTAL:</b>	<b>149</b>
			<b>Fenestration/CFA Ratio:</b>	<b>10.1 %</b>

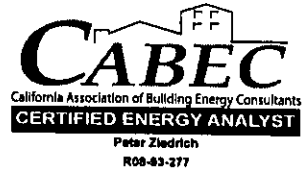
**REMARKS**

Assumed insulation at existing assemblies:  
*R-0 floors, R-0 walls, R-19 attic*  
 replace all existin fenestration (single pane, steel frame) with like sized dual pane vinyl windows

Insulation at addition:  
*R-19 raised floors, R-11 walls, R-19 attic*  
 new fenestration to be dual pane, vinyl frame (default values assumed)

**STATEMENT OF COMPLIANCE**

This certificate of compliance lists the building features and specifications needed to comply with Title 24, Parts 1 the Administrative Regulations and Part 6 the Efficiency Standards of the California Code of Regulations.



The documentation author hereby certifies that the documentation is accurate and complete.

**Documentation Author**

Company *RaPiD Energy Compliance* Name *Peter Ziedrich* Signed *Peter Ziedrich* Date *12/13/2011*  
 Address *420 Hudson Street, Suite K* Phone *707 433-2878*  
 City/State/Zip *Healdsburg, CA 95448*

The individual with overall design responsibility hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application, and recognizes that compliance using duct design, duct sealing, verification of refrigerant charge, insulation installation quality, and building envelope sealing require installer testing and certification and field verification by an approved HERS rater.

**Designer or Owner (per Business & Professions Code)**

Company *Holly & Associates* Name *Janver Holly* Signed *[Signature]* License # *[Blank]* Date *12/14/11*  
 Address *73A Saint James Place* Phone *(707) 541-0700*  
 City/State/Zip *Santa Rosa, CA 95403*

**CERTIFICATE OF COMPLIANCE: Residential** (Part 4 of 5) **CF-1R**

Project Name **Smokewood Residence** Building Type  Single Family  Addition Alone  Multi Family  Existing+ Addition/Alteration Date **12/13/2011**

**OPAQUE SURFACE DETAILS**

Surface Type	Area	U-Factor	Insulation				Azim	Tilt	Status	Joint Appendix 4	Location/Comments
			Cavity	Exterior	Frame	Interior					
Floor	992	0.097	None				0	180	New	4.4.1-A1	Existing Residence
Wall	126	0.356	None				340	90	Existing	4.3.1-A1	Existing Residence
Door	20	0.500	None				340	90	Existing	4.5.1-A4	Existing Residence
Wall	310	0.356	None				70	90	Removed	4.3.1-A1	Existing Residence
Wall	180	0.356	None				160	90	Existing	4.3.1-A1	Existing Residence
Wall	288	0.356	None				250	90	Existing	4.3.1-A1	Existing Residence
Door	20	0.500	None				250	90	Existing	4.5.1-A4	Existing Residence
Roof	992	0.048	R-19				260	0	New	4.2.1-A16	Existing Residence
Floor	240	0.037	R-19				0	180	New	4.4.1-A4	Addition
Wall	41	0.110	R-11				340	90	New	4.3.1-A2	Addition
Wall	107	0.110	R-11				340	90	New	4.3.1-A2	Addition
Wall	116	0.110	R-11				70	90	New	4.3.1-A2	Addition
Wall	148	0.110	R-11				70	90	New	4.3.1-A2	Addition
Door	18	0.500	None				70	90	New	4.5.1-A4	Addition
Wall	128	0.110	R-11				160	90	New	4.3.1-A2	Addition
Roof	492	0.048	R-19				240	0	New	4.2.1-A16	Addition

**FENESTRATION SURFACE DETAILS**

ID	Type	Area	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	Azim	Status	Glazing Type	Location/Comments		
1	Window	52.0	0.580	Default	0.65	Default	340	Altered	Double Non Metal Clear	Existing Residence
2	Existing		1.280	Default	0.80	Default			Single Metal Clear	pre-altered for above
3	Window	16.0	1.280	Default	0.80	Default	70	Removed	Single Metal Clear	Existing Residence
4	Window	18.0	0.580	Default	0.65	Default	160	Altered	Double Non Metal Clear	Existing Residence
5	Existing		1.280	Default	0.80	Default			Single Metal Clear	pre-altered for above
6	Window	18.0	0.580	Default	0.65	Default	250	Altered	Double Non Metal Clear	Existing Residence
7	Existing		1.280	Default	0.80	Default			Single Metal Clear	pre-altered for above
8	Window	12.0	0.580	Default	0.65	Default	340	New	Double Non Metal Clear	Addition
9	Window	16.0	0.580	Default	0.65	Default	70	New	Double Non Metal Clear	Addition
10	Window	33.4	0.580	Default	0.65	Default	160	New	Double Non Metal Clear	Addition

(1) U-Factor Type: 116-A = Default Table from Standards, NFRC = Labeled Value  
 (2) SHGC Type: 116-B = Default Table from Standards, NFRC = Labeled Value

**EXTERIOR SHADING DETAILS**

ID	Exterior Shade Type	SHGC	Window		Overhang				Left Fin			Right Fin		
			Hgt	Wd	Len	Hgt	LExt	RExt	Dist	Len	Hgt	Dist	Len	Hgt
1	Bug Screen	0.76												
2	Bug Screen	0.76												
3	Bug Screen	0.76	2.0	8.0	1.0	1.0	1.0	1.0						
4	Bug Screen	0.76												
5	Bug Screen	0.76												
6	Bug Screen	0.76	3.0	6.0	1.0	1.0	1.0	1.0						
7	Bug Screen	0.76	3.0	6.0	1.0	1.0	1.0	1.0						
8	Bug Screen	0.76												
9	Bug Screen	0.76	4.0	4.0	1.0	1.0	1.0	1.0						
10	Bug Screen	0.76												





**MANDATORY MEASURES SUMMARY: Residential**

(Page 1 of 3)

**MF-1R**

Project Name

Smokewwod Residence

Date

12/13/2011

**NOTE:** Low-rise residential buildings subject to the Standards must comply with all applicable mandatory measures listed, regardless of the compliance approach used. More stringent energy measures listed on the Certificate of Compliance (CF-1R, CF-1R-ADD, or CF-1R-ALT Form) shall supersede the items marked with an asterisk (\*) below. This Mandatory Measures Summary shall be incorporated into the permit documents, and the applicable features shall be considered by all parties as minimum component performance specifications whether they are shown elsewhere in the documents or in this summary. Submit all applicable sections of the MF-1R Form with plans.

**Building Envelope Measures:**

§116(a)1: Doors and windows between conditioned and unconditioned spaces are manufactured to limit air leakage.

§116(a)4: Fenestration products (except field-fabricated windows) have a label listing the certified U-Factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration that meets the requirements of §10-111(a).

§117: Exterior doors and windows are weather-stripped; all joints and penetrations are caulked and sealed.

§118(a): Insulation specified or installed meets Standards for Insulating Material. Indicate type and include on CF-6R Form.

§118(i): The thermal emittance and solar reflectance values of the cool roofing material meets the requirements of §118(i) when the installation of a Cool Roof is specified on the CF-1R Form.

\*§150(a): Minimum R-19 insulation in wood-frame ceiling or equivalent U-factor.

§150(b): Loose fill insulation shall conform with manufacturer's installed design labeled R-Value.

\*§150(c): Minimum R-13 insulation in wood-frame wall or equivalent U-factor.

\*§150(d): Minimum R-13 insulation in raised wood-frame floor or equivalent U-factor.

§150(f): Air retarding wrap is tested, labeled, and installed according to ASTM E1677-95(2000) when specified on the CF-1R Form.

§150(g): Mandatory Vapor barrier installed in Climate Zones 14 or 16.

§150(l): Water absorption rate for slab edge insulation material alone without facings is no greater than 0.3%; water vapor permeance rate is no greater than 2.0 perm/inch and shall be protected from physical damage and UV light deterioration.

**Fireplaces, Decorative Gas Appliances and Gas Log Measures:**

§150(e)1A: Masonry or factory-built fireplaces have a closable metal or glass door covering the entire opening of the firebox.

§150(e)1B: Masonry or factory-built fireplaces have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper and or a combustion-air control device.

§150(e)2: Continuous burning pilot lights and the use of indoor air for cooling a firebox jacket, when that indoor air is vented to the outside of the building, are prohibited.

**Space Conditioning, Water Heating and Plumbing System Measures:**

§110-§113: HVAC equipment, water heaters, showerheads, faucets and all other regulated appliances are certified by the Energy Commission.

§113(c)5: Water heating recirculation loops serving multiple dwelling units and High-Rise residential occupancies meet the air release valve, backflow prevention, pump isolation valve, and recirculation loop connection requirements of §113(c)5.

§115: Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces, household cooking appliances (appliances with an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt), and pool and spa heaters.

§150(h): Heating and/or cooling loads are calculated in accordance with ASHRAE, SMACNA or ACCA.

§150(i): Heating systems are equipped with thermostats that meet the setback requirements of Section 112(c).

§150(j)1A: Storage gas water heaters rated with an Energy Factor no greater than the federal minimal standard are externally wrapped with insulation having an installed thermal resistance of R-12 or greater.

§150(j)1B: Unfired storage tanks, such as storage tanks or backup tanks for solar water-heating system, or other indirect hot water tanks have R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.

§150(j)2: First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire length of recirculating sections of hot water pipes are insulated per Standards Table 150-B.

§150(j)2: Cooling system piping (suction, chilled water, or brine lines), and piping insulated between heating source and indirect hot water tank shall be insulated to Table 150-B and Equation 150-A.

§150(j)2: Pipe insulation for steam hydronic heating systems or hot water systems >15 psi, meets the requirements of Standards Table 123-A.

§150(j)3A: Insulation is protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.

§150(j)3A: Insulation for chilled water piping and refrigerant suction lines includes a vapor retardant or is enclosed entirely in conditioned space.

§150(j)4: Solar water-heating systems and/or collectors are certified by the Solar Rating and Certification Corporation.

**MANDATORY MEASURES SUMMARY: Residential**

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**MF-1R**

Project Name

Smokewwod Residence

Date

12/13/2011

§150(m)1: All air-distribution system ducts and plenums installed, are sealed and insulated to meet the requirements of CMC Sections 601, 602, 603, 604, 605 and Standard 6-5; supply-air and return-air ducts and plenums are insulated to a minimum installed level of R-4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used

§150(m)1: Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts.

§150(m)2D: Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.

§150(m)7: Exhaust fan systems have back draft or automatic dampers.

§150(m)8: Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operated dampers.

§150(m)9: Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material.

§150(m)10: Flexible ducts cannot have porous inner cores.

§150(o): All dwelling units shall meet the requirements of ANSI/ASHRAE Standard 62.2-2007 Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings. Window operation is not a permissible method of providing the Whole Building Ventilation required in Section 4 of that Standard.

**Pool and Spa Heating Systems and Equipment Measures:**

§114(a): Any pool or spa heating system shall be certified to have: a thermal efficiency that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater; a permanent weatherproof plate or card with operating instructions; and shall not use electric resistance heating or a pilot light.

§114(b)1: Any pool or spa heating equipment shall be installed with at least 36" of pipe between filter and heater, or dedicated suction and return lines, or built-up connections for future solar heating.

§114(b)2: Outdoor pools or spas that have a heat pump or gas heater shall have a cover.

§114(b)3: Pools shall have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.

§150(p): Residential pool systems or equipment meet the pump sizing, flow rate, piping, filters, and valve requirements of §150(p).

**Residential Lighting Measures:**

§150(k)1: High efficacy luminaires or LED Light Engine with Integral Heat Sink has an efficacy that is no lower than the efficacies contained in Table 150-C and is not a low efficacy luminaire as specified by §150(k)2.

§150(k)3: The wattage of permanently installed luminaires shall be determined as specified by §130(d).

§150(k)4: Ballasts for fluorescent lamps rated 13 Watts or greater shall be electronic and shall have an output frequency no less than 20 kHz.

§150(k)5: Permanently installed night lights and night lights integral to a permanently installed luminaire or exhaust fan shall contain only high efficacy lamps meeting the minimum efficacies contained in Table 150-C and shall not contain a line-voltage socket or line-voltage lamp holder; OR shall be rated to consume no more than five watts of power as determined by §130(d), and shall not contain a medium screw-base socket.

§150(k)6: Lighting integral to exhaust fans, in rooms other than kitchens, shall meet the applicable requirements of §150(k).

§150(k)7: All switching devices and controls shall meet the requirements of §150(k)7.

§150(k)8: A minimum of 50 percent of the total rated wattage of permanently installed lighting in kitchens shall be high efficacy. EXCEPTION: Up to 50 watts for dwelling units less than or equal to 2,500 ft<sup>2</sup> or 100 watts for dwelling units larger than 2,500 ft<sup>2</sup> may be exempt from the 50% high efficacy requirement when: all low efficacy luminaires in the kitchen are controlled by a manual on occupant sensor, dimmer, energy management system (EMCS), or a multi-scene programmable control system; and all permanently installed luminaries in garages, laundry rooms, closets greater than 70 square feet, and utility rooms are high efficacy and controlled by a manual-on occupant sensor.

§150(k)9: Permanently installed lighting that is internal to cabinets shall use no more than 20 watts of power per linear foot of illuminated cabinet.

**MANDATORY MEASURES SUMMARY: Residential**

(Page 3 of 3)

**MF-1R**

Project Name

*Smokewood Residence*

Date

*12/13/2011*

§150(k)10: Permanently installed luminaires in bathrooms, attached and detached garages, laundry rooms, closets and utility rooms shall be high efficacy.

EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by a manual-on occupant sensor certified to comply with the applicable requirements of §119.

EXCEPTION 2: Permanently installed low efficacy luminaires in closets less than 70 square feet are not required to be controlled by a manual-on occupancy sensor.

§150(k)11: Permanently installed luminaires located in rooms or areas other than in kitchens, bathrooms, garages, laundry rooms, closets, and utility rooms shall be high efficacy luminaires. EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided they are controlled by either a dimmer switch that complies with the applicable requirements of §119, or by a manual-on occupant sensor that complies with the applicable requirements of §119. EXCEPTION 2: Lighting in detached storage building less than 1000 square feet located on a residential site is not required to comply with §150(k)11.

§150(k)12: Luminaires recessed into insulated ceilings shall be listed for zero clearance insulation contact (IC) by Underwriters Laboratories or other nationally recognized testing/rating laboratory; and have a label that certifies the luminaire is airtight with air leakage less than 2.0 CFM at 75 Pascals when tested in accordance with ASTM E283; and be sealed with a gasket or caulk between the luminaire housing and ceiling.

§150(k)13: Luminaires providing outdoor lighting, including lighting for private patios in low-rise residential buildings with four or more dwelling units, entrances, balconies, and porches, which are permanently mounted to a residential building or to other buildings on the same lot shall be high efficacy. EXCEPTION 1: Permanently installed outdoor low efficacy luminaires shall be allowed provided that they are controlled by a manual on/off switch, a motion sensor not having an override or bypass switch that disables the motion sensor, and one of the following controls: a photocontrol not having an override or bypass switch that disables the photocontrol; OR an astronomical time clock not having an override or bypass switch that disables the astronomical time clock; OR an energy management control system (EMCS) not having an override or bypass switch that allows the luminaire to be always on EXCEPTION 2: Outdoor luminaires used to comply with Exception 1 to §150(k)13 may be controlled by a temporary override switch which bypasses the motion sensing function provided that the motion sensor is automatically reactivated within six hours. EXCEPTION 3: Permanently installed luminaires in or around swimming pool, water features, or other location subject to Article 680 of the California Electric Code need not be high efficacy luminaires.

§150(k)14: Internally illuminated address signs shall comply with Section 148; OR not contain a screw-base socket, and consume no more than five watts of power as determined according to §130(d).

§150(k)15: Lighting for parking lots and carports with a total of for 8 or more vehicles per site shall comply with the applicable requirements in Sections 130, 132, 134, and 147. Lighting for parking garages for 8 or more vehicles shall comply with the applicable requirements of Sections 130, 131, 134, and 146.

§150(k)16: Permanently installed lighting in the enclosed, non-dwelling spaces of low-rise residential buildings with four or more dwelling units shall be high efficacy luminaires. EXCEPTION: Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by an occupant sensor(s) certified to comply with the applicable requirements of §119.

APPROVED  
-AS NOTED-

PERMIT NO. **BD11-5309**

DATE **12/15/11**

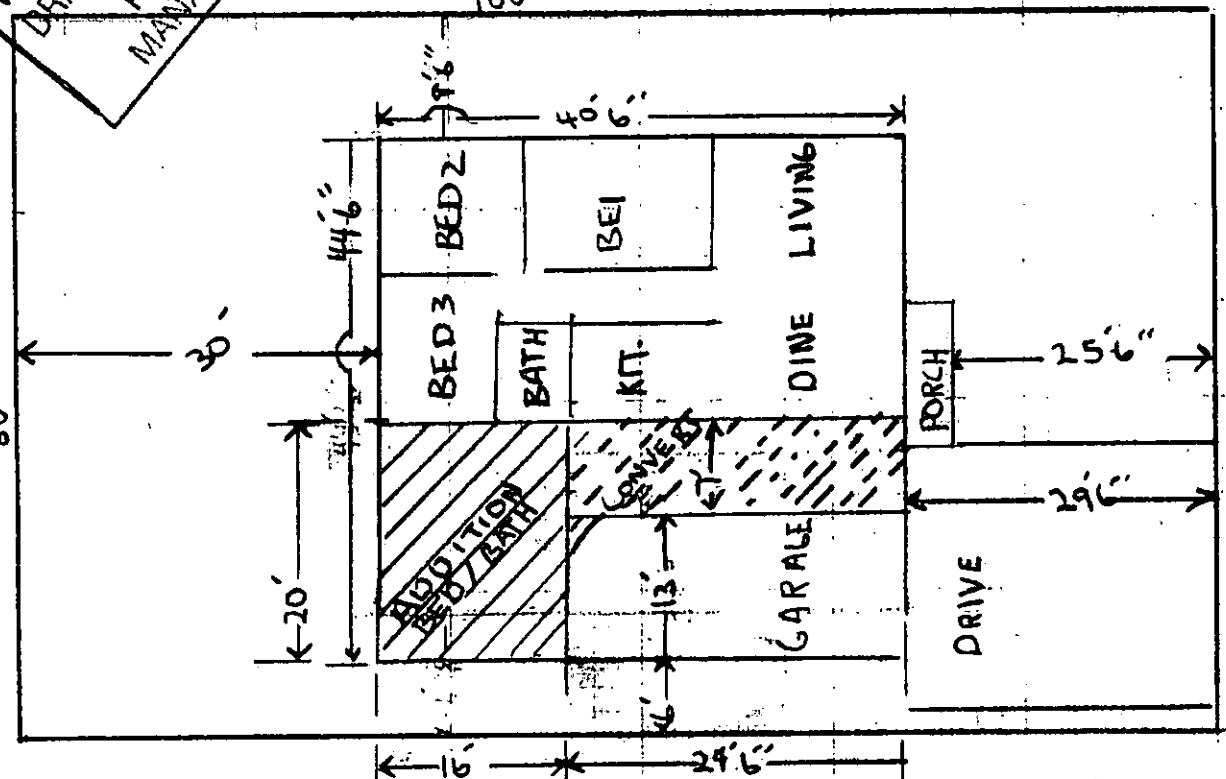
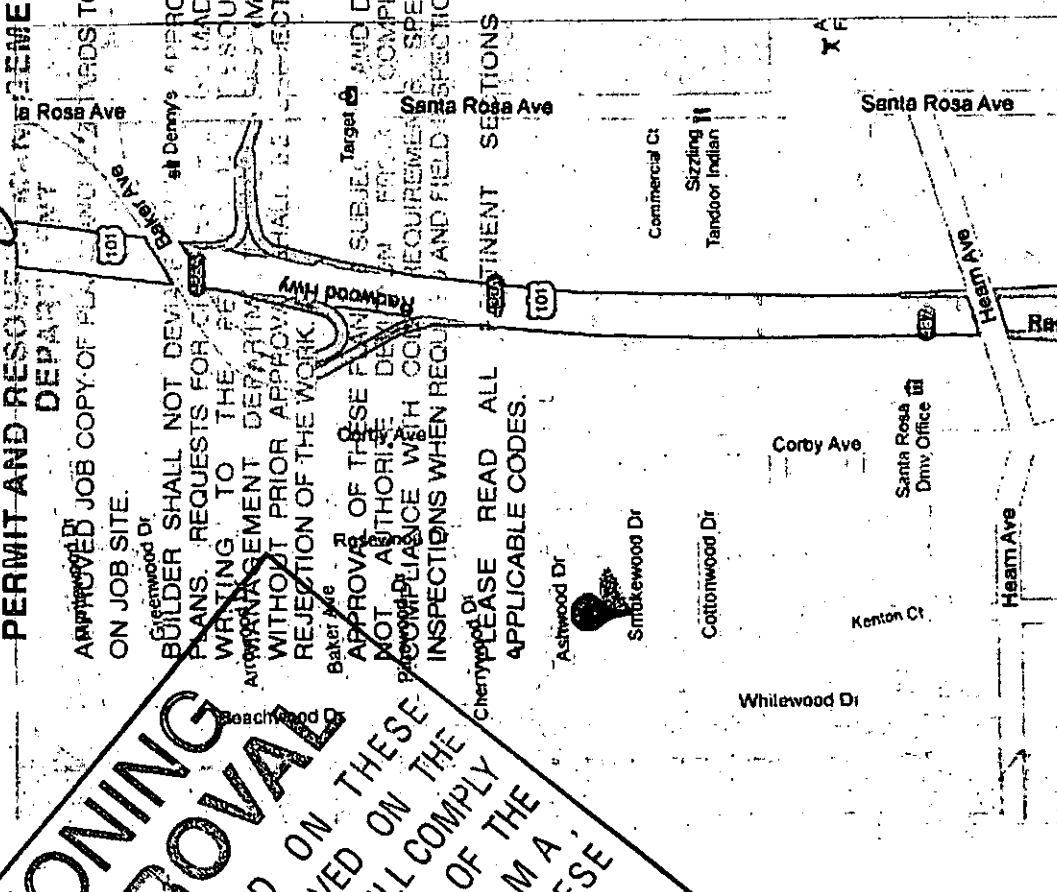
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

APPROVED JOB COPY OF PLAN AND PERMITS TO BE ON JOB SITE.

BUILDER SHALL NOT DEVELOP OR CONSTRUCT ANY WORK UNLESS THE PLANS, REQUESTS FOR PERMITS, AND PERMITS ARE ON FILE WITH THE PERMIT AND RESOURCE MANAGEMENT DEPARTMENT WITHOUT PRIOR APPROVAL. REJECTION OF THE WORK APPROVAL OF THESE PLANS IS NOT AUTHORIZED. THE PERMIT AND RESOURCE MANAGEMENT DEPARTMENT SHALL CONDUCT INSPECTIONS WHEN REQUIRED. PLEASE READ ALL APPLICABLE CODES.

**ZONING APPROVAL**  
WORK INDICATED ON THESE DRAWINGS IS APPROVED ON THE BASIS THAT ALL WORK WILL COMPLY WITH ALL REQUIREMENTS OF THE COUNTY OF SONOMA, WHETHER SHOWN ON THESE DRAWINGS OR NOT. PERMIT AND RESOURCE MANAGEMENT DEPARTMENT  
*[Signature]*  
12-15-11

EXISTING HOUSE	980 $\phi$
ADDITION	320 $\phi$
CONVERTED	188 $\phi$
TOTAL ADDED	488 $\phi$
TOTAL HOUSE	1468 $\phi$
GARAGE	312 $\phi$
LOT COVERAGE	30%



**Scope of work:**

1. Legalize space constructed without permits. Convert illegal bedroom and bathroom to legal bedroom and bathroom.
2. Convert legal unconditioned space, (originally part of the garage) to legal conditioned space. Remove illegal kitchen and bath.
3. Remodel existing kitchen, replace cabinets, counters, GFI outlets, sink, fluorescent light
4. Install New water heater
5. Install 2 new wall furnaces.

516 Smokewood Dr. Santa Rosa, 95407

Owner : Auxon, LLC 139 Ursuline Road, Santa Rosa, CA 95403

APN 043 162 041

516 SMOKEWOOD DRIVE

BUILDING PLAN CHECK

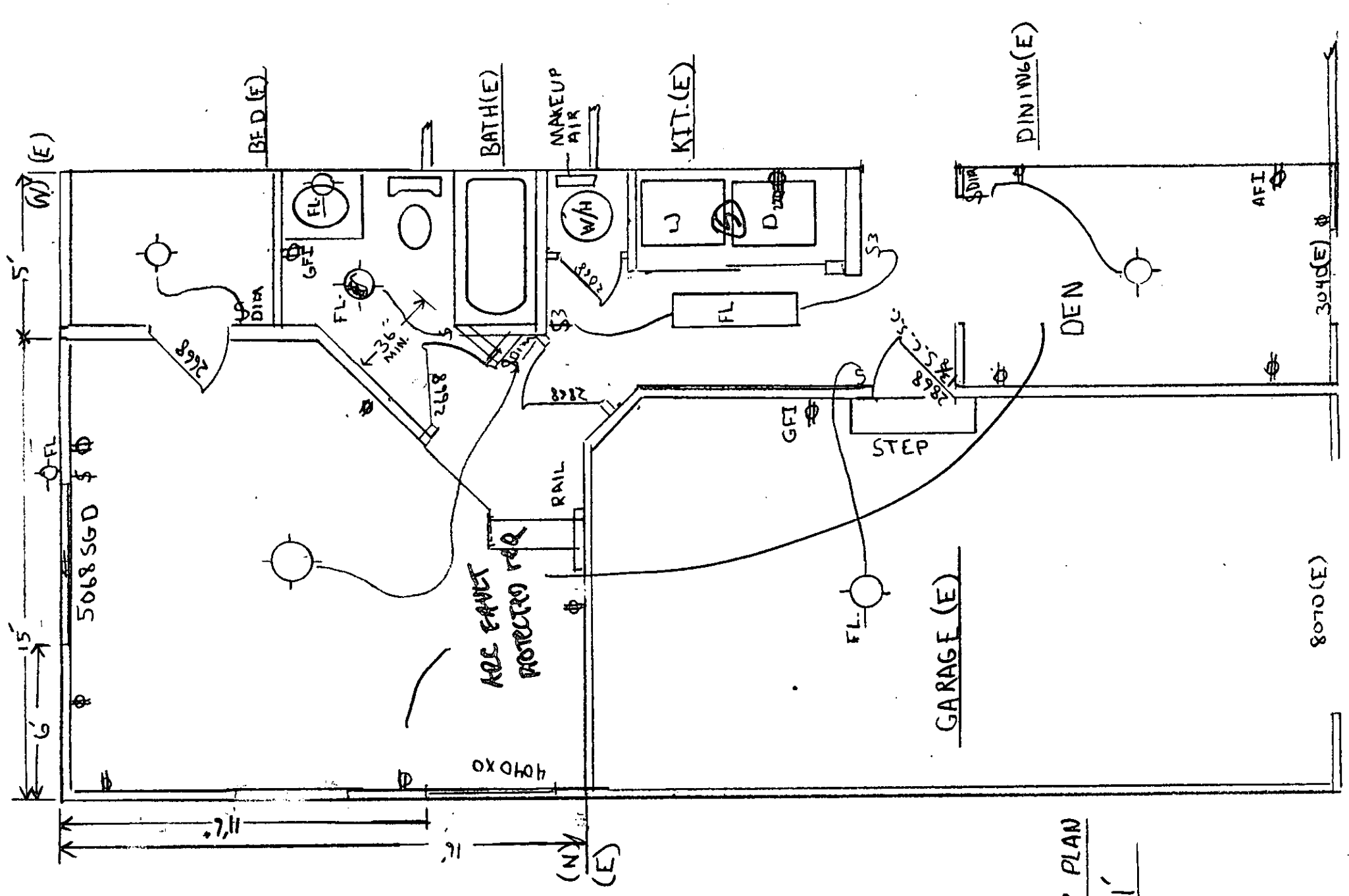
★ APPROVED ★

DEC 15 2011  
*[Signature]*

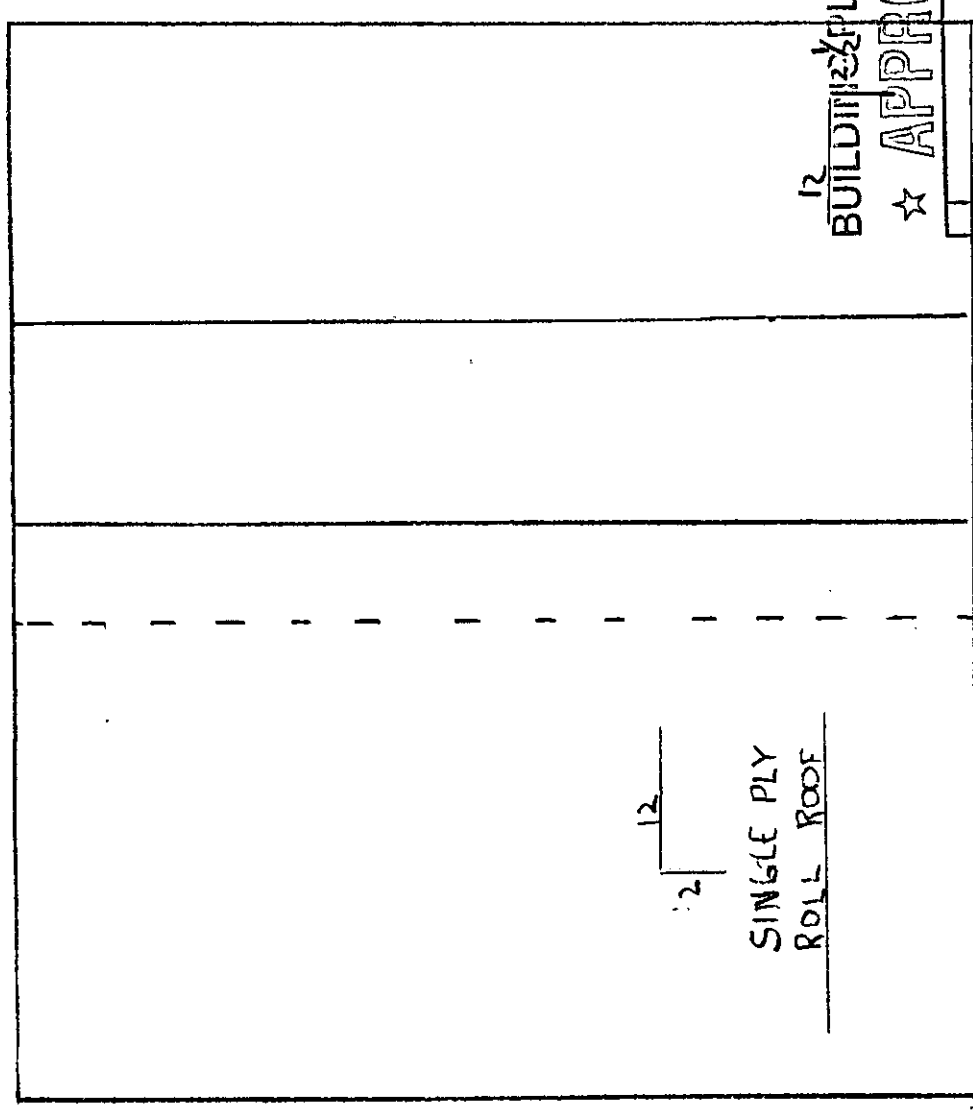
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

FILE COPY  
BD11-5309

*[Handwritten signature]*



FLOOR PLAN  
1/4" = 1'



BUILDING PLAN CHECK  
★ APPROVED ★

DEC 15 2011

PERMIT DEPARTMENT  
ENVIRONMENTAL RESOURCE



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 Owner : Auxon, LLC 139 Ursuline Road, Santa Rosa, CA 95403  
 APN 043 162 041